

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
19 May 2005 (19.05.2005)

PCT

(10) International Publication Number  
**WO 2005/046007 A1**

(51) International Patent Classification<sup>7</sup>: **H01R 13/627**,  
13/629

(21) International Application Number:  
PCT/EP2004/012632

(22) International Filing Date:  
5 November 2004 (05.11.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/518,589 7 November 2003 (07.11.2003) US  
1024850 24 November 2003 (24.11.2003) NL

Peter [NL/NL]; Tongelaer 32, NL-5235 GV 's Hertogenbosch (NL). **POORTER, Peter** [NL/NL]; Kerkverweide 57, NL-4261 LL Wijk en Aalburg (NL). **POTTERS, Paul, Johannes, Marinus** [NL/NL]; Nassastraat 5, NL-5616 AG Eindhoven (NL).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(71) Applicant (for all designated States except US): FCI [FR/FR]; 145/147 rue Yves Le Coz, F-7800 Versailles (FR).

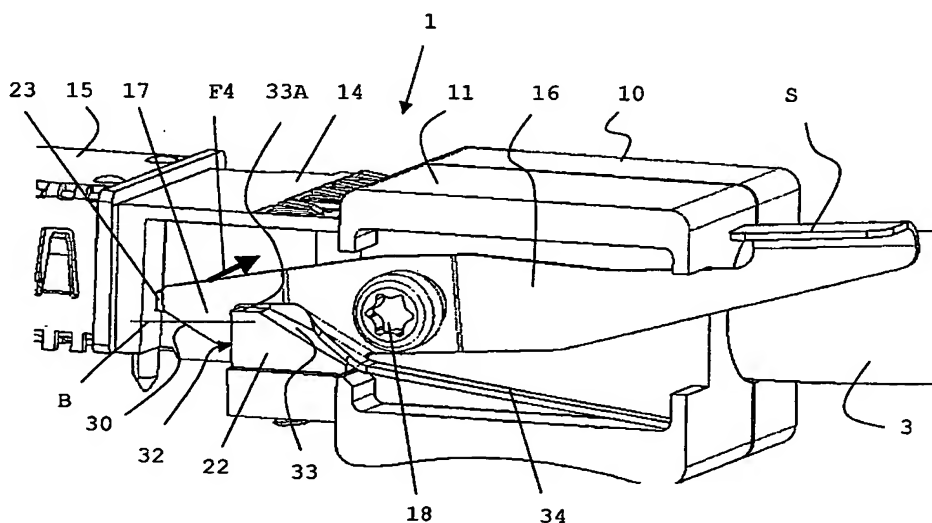
(72) Inventors; and

(75) Inventors/Applicants (for US only): **MELJER, Marcel**,

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE,

[Continued on next page]

(54) Title: CONNECTOR SYSTEM WITH IMPROVED UNPLUGGING FUNCTIONALITY



(57) Abstract: The invention relates to a connector system (1) of a connector (2) and a counterpart (4). The connector (2) comprises a pivotally supported locking arm (16) extending towards said counterpart (4;5), wherein said locking arm (16) comprises a first locking portion (17) adapted to engage with a second locking portion (22) of said counterpart (4;5) by a first rotating movement (R1) of said locking arm (16) to a locked position to lock said connector (2) and said counterpart (4;5) and to disengage from said second locking portion by a second rotating movement (R2) to an unlocked position to unlock said connector (2) and said counterpart (4;5). The system (1) is adapted to support said locking arm (16) after said second rotating movement (R2) to prevent said locking arm (16) to rotate backwards to said locked position. The invention further relates to a method for unplugging such a connector (2) and a counterpart (4).

WO 2005/046007 A1



SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,  
GW, ML, MR, NE, SN, TD, TG).

**Published:**

— *with international search report*

**Declarations under Rule 4.17:**

- *of inventorship (Rule 4.17(iv)) for US only*
- *of inventorship (Rule 4.17(iv)) for US only*

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*